ZILFIMIAN



KNN2/KNN (Q9L10)

63% (12/19)

- X 1. KNN is
 - (A) data-driven method
 - B model-driven method
 - (c) I do not know
- ✓ 2. The dependent variable of the classification is
 - A categorical
 - (B) numeric
 - (c) I do not know
- ✓ 3. KNN can be used for regression
 - A Yes
 - B) No
 - (c) I do not know
- ✓ 4. In the case of KNN classification we use
 - (A) average of outcomes
 - B majority voting scheme
 - (c) I do not know
- ✓ 5. Which of these errors will increase constantly by increasing k?
 - A train error
 - B test error
 - (c) both
 - D I do not know
- 6. This function can be used to perform KNN classificationin R
 - A knn()
 - B k_nn()
 - (c) knnreg()
 - (D) knearneib()
 - (E) I do not know

✓	10.	In the case of small k we have	
	A	overfitting	
	B	underfitting	
	C	it depends on the situation	
	D	I do not know	
X	11.	Why do we need scaling in KNN?	
	A	to avoid overfitting	
	B	to avoid underfitting	
	$\overline{(c)}$	to have "equal" weights for variables	
	D	I do not know	
×	12.	Let k = n, (n- number of observations), K-NN is same as	
	(A)	random guessing	
	(B)	everything will be classified as the most probable class (in total)	
	C	everything will be classified as the least probable class (in total)	
	D	I do not know	
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 \times 7. With the increase of k, the decision boundary will be

8. KNN algorithm is sensitive to outliers

A is a supervised learning algorithm.

B is an unsupervised learning algorithm.

(A) simplified

D unchanged

True False

9. KNN

B more complex

I do not know

I do not know

I do not know

/	13. This function can be used to perform K-NN regression in R
	A knn.reg
	B knnforreg
	C regknn
	(D) knnforregression
	(E) I do not know
/	14. Do you need to worry about scaling with one explanatory variable?
	A No
	B Yes
	C I do not know
/	15. n - the number of observation, m - the number of explanatory variables
	When n=k, m=1, the decision boundary for regression is
	A a line
	B a stepwise constant function
	C a stepwise quadratic function
	D I do not know
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×	16. Which of these algorithms can be used to fill the missing values
	A) KNN for regression
	B KNN for classification
	(c) both
	D I do not know
	17. Which one is better: KNN regression or Linear regression
•	?
	A KNN outperform LR if the parametric form that has been selected is close to the true form of f
	B LR outperform KNN if the parametric form that has been selected is close to the true form of f
	C KNN will always outperform the LR
	L do not know

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X 18. Which one is the Disadvantage of KNN? A required assumptions B cannot be applied for regression C difficult to perform D the problem of high dimensional data E I do not know X 19. The best k for train set equals to A 1 B 2 C 0 D I do not know 20. What is the Parzen window

Kernel

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